

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
27 December 2002 (27.12.2002)

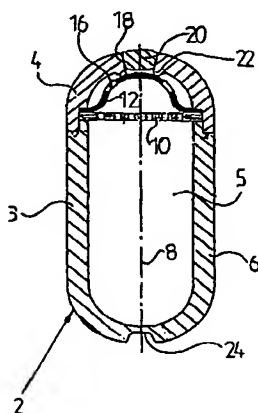
PCT

(10) International Publication Number
WO 02/102243 A1

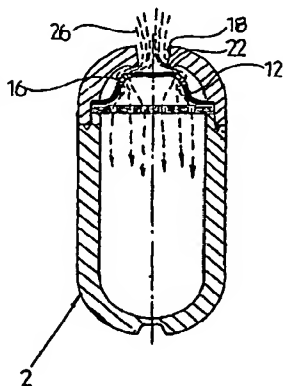
- (51) International Patent Classification⁷: **A61B 5/00, 10/00** (74) Agent: **DR LUDWIG BRANN PATENTBYRÅ AB**; P O Box 17192, S-104 62 Stockholm (SE).
- (21) International Application Number: **PCT/SE02/00951**
- (22) International Filing Date: **17 May 2002 (17.05.2002)** (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW.
- (25) Filing Language: **English**
- (26) Publication Language: **English**
- (30) Priority Data:
0101738-3 17 May 2001 (17.05.2001) SE
60/301,254 28 June 2001 (28.06.2001) US
- (71) Applicant (*for all designated States except US*): **FÄRGK-LÄMMAN AB** [SE/SE]; Pyramidbacken 6, S-141 75 Huddinge (SE).
- (72) Inventor; and
- (75) Inventor/Applicant (*for US only*): **STOLTZ, Klas** [SE/SE]; Gökvägen 2A, S-133 36 Saltsjöbaden (SE).
- (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: **SAMPLING DEVICE AND METHOD FOR OBTAINING SAMPLES OF INTERNAL BODY SUBSTANCES AND METHOD FOR PRODUCING A SAMPLING DEVICE**



(57) Abstract: The present invention relates to a sampling device and a method for obtaining samples of internal body substances in the digestive system of humans or animals. The sampling device has the shape of a swallowable capsule (2), which allows a sample of the body substance (26) to enter the capsule through an inlet opening (18). The inlet opening (18) is opening in a predetermined position of the digestive tract following contact with the body substance to be collected. The capsule (2) comprises an inner chamber disposed to preserve a substantial negative pressure when the inlet opening (18) is sealed. When the inlet opening (18) has been opened, a blocking member (12) admits flow of body substance into an inner chamber as long as there is a pressure difference between the inner chamber (5) and the external environment of the capsule (2).



WO 02/102243 A1



Declaration under Rule 4.17:

— *of inventorship (Rule 4.17(iv)) for US only*

Published:

— *with international search report*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.